Underwater Cable(GYTA33)

Product Description

The GYTA33 optical cable is constructed by placing 250μm optical fibers into loose tubes made of high-modulus material, with the tubes filled with waterproof compound. The cable core is centered around a metallic strength member, around which the loose tubes and filler rods are stranded. Gaps within the core are filled with water-blocking material to prevent moisture ingress. The core is sequentially wrapped with a longitudinally applied corrugated aluminum-plastic laminate (APL) tape, followed by extrusion of a polyethylene inner sheath. An additional APL tape is longitudinally applied over the inner sheath, and the assembly is then armored with a single-layer helical steel wire armor. Finally, the cable is completed by extruding a polyethylene outer sheath.

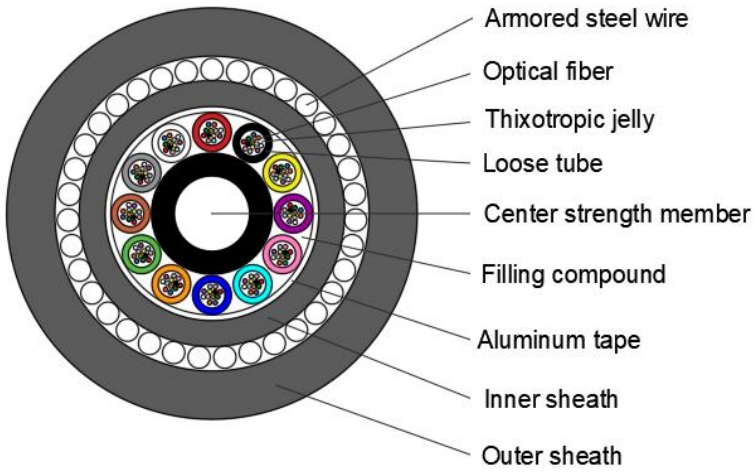
Product standard

According to IEC60794-3-30-2008

Applications：Underwater

Product features

- Selection of high quality optical fiber, to ensure that the cable has excellent transmission performance
- The loose tube itself have good hydrolysis resistance and high strength, and the special thixotropic jelly filled in the tube provide the key protection for the optical fiber
- Corrosion resistant, high Young's modulus phosphating steel wire is used for the central reinforcement
- The cable is longitudinally coated with double film corrugated aluminum tape, and the fine round steel wire is wrapped and armored to ensure the mechanical compressive, tensile and bulletproof properties of the cable, and meet the application requirements of direct buried uphill and underwater laying



Technical parameter

Fiber count	Bending radius（mm）		Tensile strength (N)	Crush resistance (N/100mm)
2-144	Static	Dynamic	Design according to	Design according to

	≥12.5×cable diameter	≥25×cable diameter	customer requirements	customer requirements